

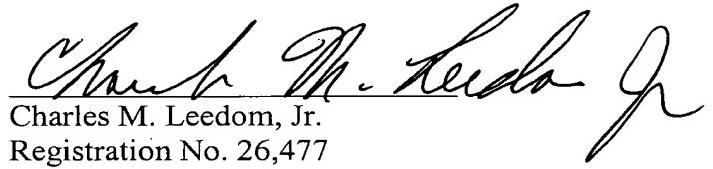
**REMARKS**

This Preliminary Amendment cancels claims 1-37 and adds new claims 38-42. Claims 38-42 are pending and claim 38 is independent.

The application is a divisional application of currently pending application Serial No. 08/436,863, issuing as Reissue 37,141.

Applicant shall provide an executed Declaration and appropriate Information Disclosure Statement.

Respectfully submitted,

  
Charles M. Leedom, Jr.  
Registration No. 26,477

CML:JEH/dkt

NIXON PEABODY LLP  
8180 Greensboro Drive  
Suite 800  
McLean, VA 22102  
Tel: (703) 790-9110  
Fax: (703) 883-0370

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26. A cellular computer interface device for allowing a portable computer having a conventional data output terminal to operate a mobile cellular telephone having a cellular transceiver adapted to be linked via radio signals to a cellular system in response to bus-compatible control signals generated by a control unit in response to direct operator input and supplied to the cellular transceiver over a bus directly connected to the control unit and the cellular transceiver, comprising

(a) receiving means for receiving instructions from the portable computer,

(b) processing means connected with said receiving means for interpreting the instructions received from the portable computer and for generating cellular transceiver control signals in response to said portable computer generated instructions,

(c) transmitting means connected with said processing means for receiving said cellular transceiver control signals and for generating bus-compatible signals from the said control signals and adapted to be connected with the bus for transmitting said bus compatible signals to the bus to cause the cellular transceiver to place a cellular telephone network call.

27. The device of claim 26 wherein the receiving means for receiving instructions from the portable computer comprises a serial data interface.

28. The device of claim 26 wherein the transmitting means comprises an eight-bit parallel input/output cellular interface.

29. A cellular telephone interface device comprising interface means to connect to a cellular

radiotelephone bus, sensing means connected to the interface means for sensing signals on the cellular bus, control signal generating means connected to the interface means for generating control signals and transmitting said signals to the cellular bus, and processing means connected to the sensing means and to the control signal generating means for receiving and evaluating the signals sensed by the sensing means, wherein the processing means compares the sensed bus signals to expected bus signal values incorporated in said processing means and selects a first mode of operation of the control signal generating means when the sensed bus signals correspond to the expected bus signal values and selects a second mode of operation of the control signal generating means if said sensed bus signals do not correspond to said expected bus signal values.

30. A cellular telephone interface device for use with a mobile cellular telephone of the type that has a cellular transceiver adapted to be linked via radio signals to a cellular system in response to control signals generated by a control unit and supplied to the cellular transceiver over a bus directly connected to the control unit and the cellular transceiver, which allows an analog signaling device external to the mobile cellular telephone to transmit signals to or receive signals from the cellular transceiver using the cellular bus, so that the analog signaling device may transmit or receive signals using the cellular system, comprising

(a) bus interface means for connecting external devices to the cellular bus so that said external devices may transmit signals to or receive signals from the cellular transceiver,

(b) switching means for selectively connecting one

or more external devices to the bus interface means,  
with at least one of said external devices being the  
external analog signaling device.

(c) control means for selectively controlling the  
operation of the switching means to connect the  
external analog signaling device to the bus interface  
means.

31. The device of claim 30 wherein the control  
means controls the operation of the switching means in  
response to a program internal to the device.

32. The device of claim 30 further comprising a  
computer interface means for receiving instructions  
from a portable computer, said interface means  
connected to the control means, wherein the control  
means controls the operation of the switching means in  
response to said received instructions.

33. The device of claim 30 wherein the switching  
means is an analog switch.

34. The device of claim 30 wherein the external  
analog signaling device is a modem.

35. An interface system for correcting error in  
digital data transmitted and received between first and  
second digital data processing units via a cellular  
radio telephone link established between (1) a mobile  
transceiver unit which is adapted to be interfaced  
with the first digital data processing unit and (2) one  
of a plurality of fixed transceiver units which are  
adapted to be interfaced with the second digital data  
processing unit, comprising:

(a) a mobile signal processing interface means  
adapted to be connected with the first data processing

unit and the mobile transceiver unit for supplying in digital form the data transmitted from the second digital data processing unit via the cellular telephone system to the first digital data processing unit and for receiving in digital form data from the first digital data processing unit for transmission to the second digital data processing unit via the cellular telephone system;

(b) a static signal processing interface means adapted to be connected between the second data processing unit and the one fixed transceiver unit for supplying in digital form the data transmitted from the first digital data processing unit via the cellular telephone system to the second digital data processing unit and for receiving in digital form data from the second digital data processing unit for transmission to the first digital data processing unit via the cellular telephone system;

wherein each of said mobile signal processing interface means and said static signal processing interface means includes microprocessor means for controlling said signal processing means, each said microprocessor means being programmed to form dividing means for dividing the data produced by the corresponding digital data processing unit into plural groups of digital data, forward error correction encoding means for generating and associating with each group of digital data an error correcting signal for transmission to said other signal processing interface means, and forward error correcting decoding means for receiving the forward error correcting signal generated by the microprocessor of said other signal interface means in association with each group of digital data received from said other signal processing interface means and for using said forward error correcting signal to detect errors and to correct those errors in the associated group of

digital data when the number of detected errors is below a predetermined amount.

36. An interface system as defined in claim 35, wherein said static signal processing interface means is adapted to be connected between the second data processing unit and the one fixed transceiver unit via a telephone land line.

37. An interface system as defined in claim 36, wherein said static signal processing interface means is adapted to be connected between the second data processing unit and a telephone land line connected to the plurality of fixed transceiver units of the cellular system so that digital data transmission and reception between the first and second digital data processing units may continue during movement of the mobile transceiver throughout the geographic cells of the cellular system via a cellular telephone link between the mobile transceiver unit and the fixed transceiver unit associated with the cell within which the mobile transceiver unit is moving.

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